Fig. 1A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$
 $V_2 < V_{C2}$
TIME

Fig. 1B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

$$TIME$$

Fig. 1C

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

Fig. 2A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\frac{V_1}{V_2} = V_{C1}$$

$$\frac{V_2}{V_{C2}} = V_{C2}$$

$$\frac{V_1}{V_2} = V_{C1}$$

$$\frac{V_2}{V_{C2}} = V_{C2}$$

$$\frac{V_1}{V_2} = V_{C1}$$

$$\frac{V_1}{V_2} = V_{C1}$$

$$\frac{V_2}{V_{C2}} = V_{C2}$$

Fig. 2B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

$$TIME$$

Fig. 2C

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

Fig. 3A

FIRST THERMOPLASTIC RESIN **SECOND** THERMOPLASTIC RESIN **PRESSURIZED FLUID**

$$\frac{V_1}{V_2} = V_{C1}$$

TIME

Fig. 3B

FIRST THERMOPLASTIC RESIN **SECOND** THERMOPLASTIC RESIN **PRESSURIZED** FLUID

$$\frac{V_1 = V_{C1}}{V_2 < V_{C2}}$$

$$\frac{V_1 = V_{C1}}{V_{C2}}$$
TIME

Fig. 3C

FIRST THERMOPLASTIC RESIN **SECOND** THERMOPLASTIC RESIN **PRESSURIZED FLUID**

$$\frac{V_1 = V_{C1}}{V_2 < V_{C2}}$$

Fig. 4A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\frac{V_1}{V_2} = V_{C1}$$

$$\frac{V_2}{V_2} < V_{C2}$$

TIME

Fig. 4B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

TIME

Fig. 4C

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\frac{V_1}{V_2} = V_{C1}$$

5/30

Fig. 5A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_{1} = V_{C1}$$

$$V_{2} = V_{C2}$$

$$\longrightarrow$$
TIME

Fig. 5B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

Fig. 6A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

$$V_{C2}$$

TIME

Fig. 6B

FIRST THERMOPLASTIC RESIN **SECOND** THERMOPLASTIC RESIN **PRESSURIZED** FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

$$TIME$$

Fig. 7A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

TIME

Fig. 7B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

$$W_2 = V_{C2}$$

$$W_3 = V_{C1}$$

$$W_4 = V_{C1}$$

$$W_5 = V_{C2}$$

$$W_7 = V_{C1}$$

$$W_8 = V_{C1}$$

Fig. 8A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

TIME

Fig. 8B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

Fig. 9A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

$$TIME$$

9/30

Fig. 9B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

$$TIME$$

Fig. 10A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

$$TIME$$

Fig. 10B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

$$V_1 = V_{C1}$$

$$V_2 < V_{C2}$$

$$TIME$$

Fig. 11A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

Fig. 11B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

Fig. 11C

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

TIME

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

12/30

Fig. 12A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

	$V_1 = V_{C1}$
<u> </u>	
$V_2 < V_{C2}$	
T T \	

TIME

Fig. 12B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

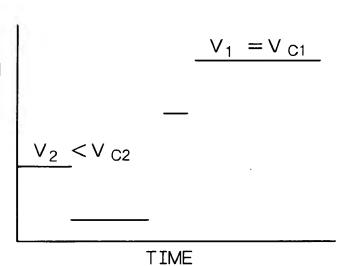


Fig. 13A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

 $V_1 = V_{C1}$ $V_2 < V_{C2}$ TIME

Fig. 13B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

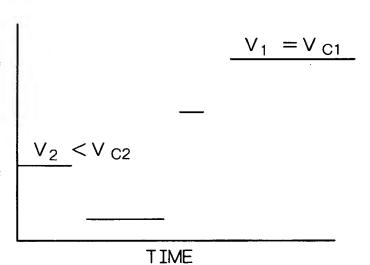


Fig. 14A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

$$TIME$$

Fig. 14B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$
TIME

Fig. 14C

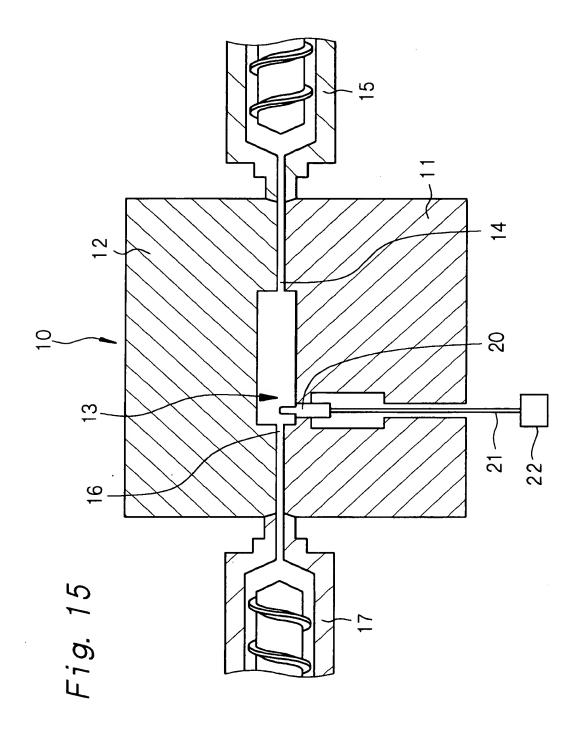
FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$



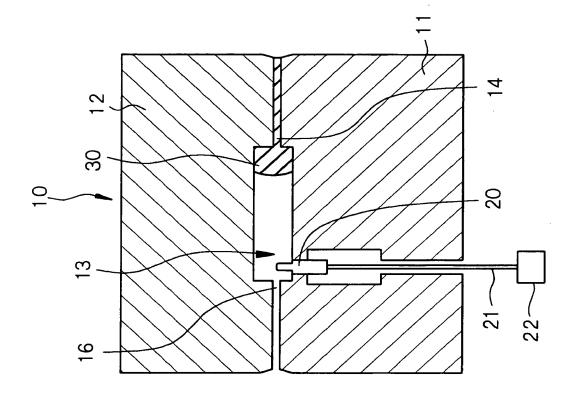


Fig. 16

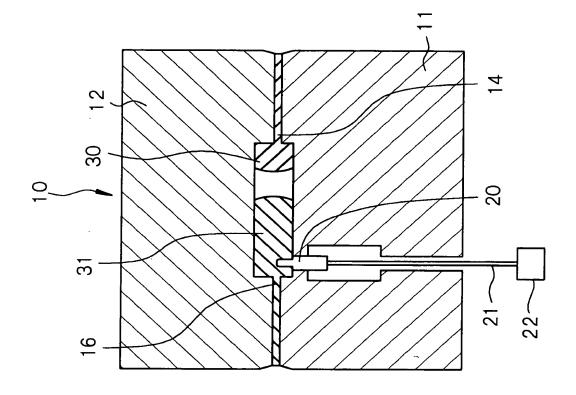


Fig. 17

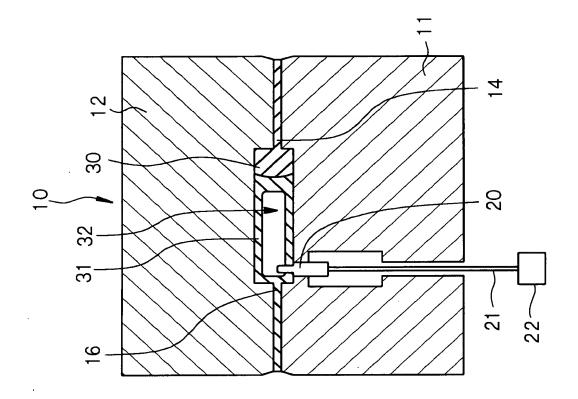
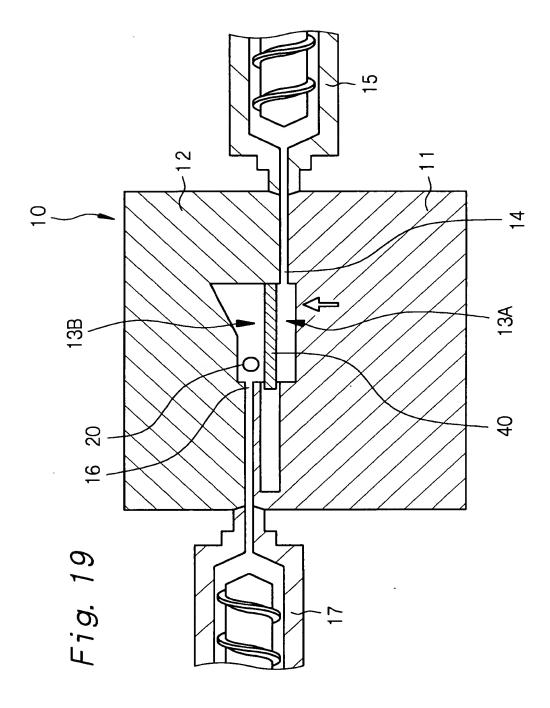


Fig. 18



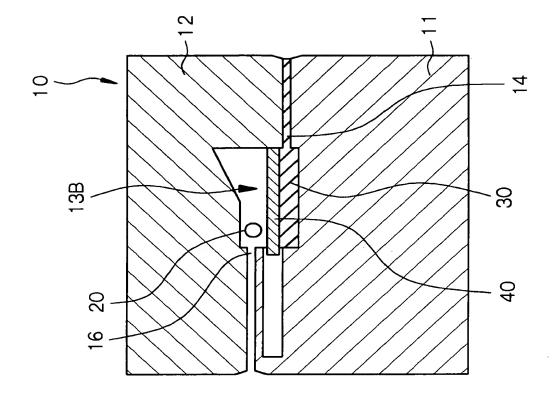


Fig. 20

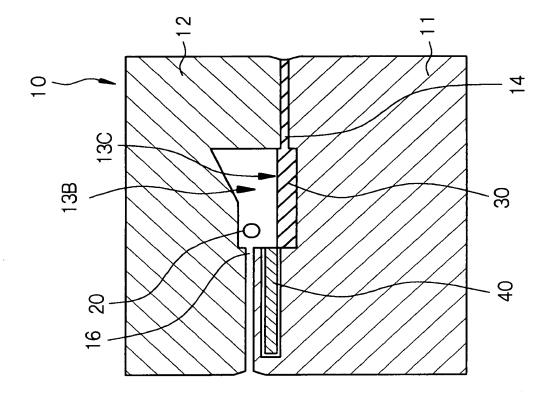


Fig. 21

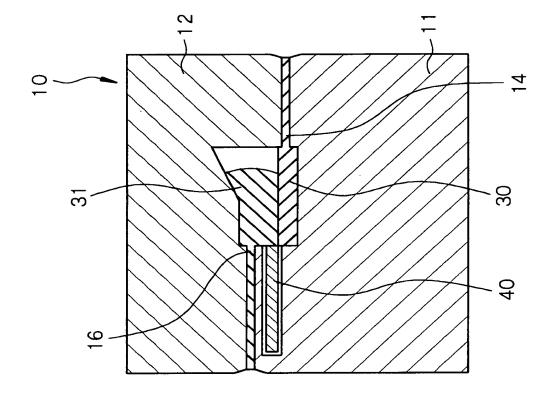


Fig. 22

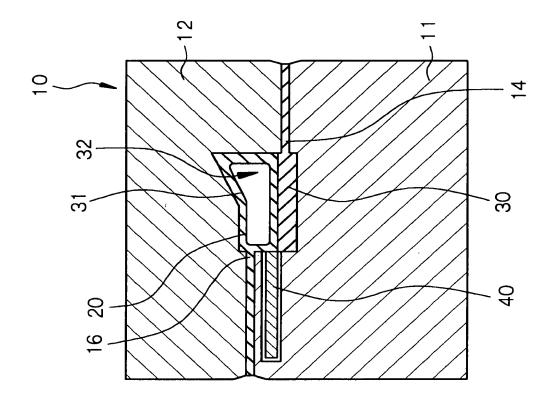


Fig. 23

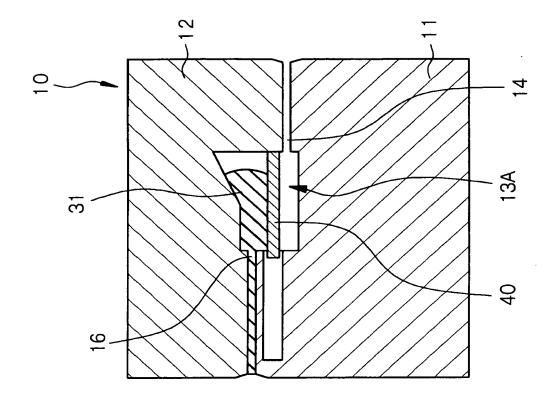


Fig. 24

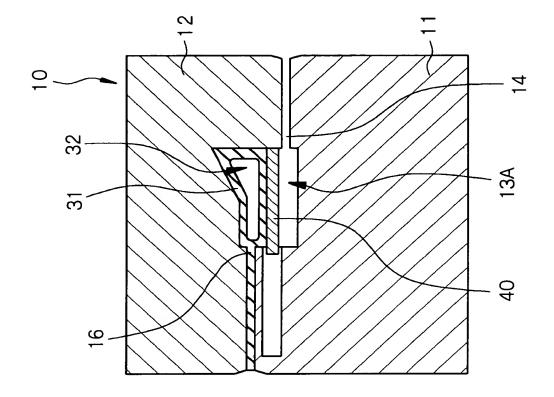


Fig. 25

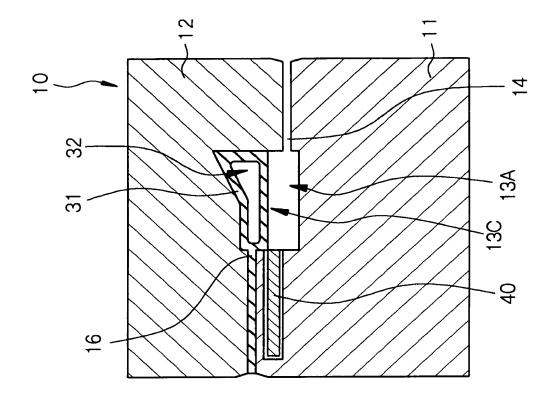


Fig. 26

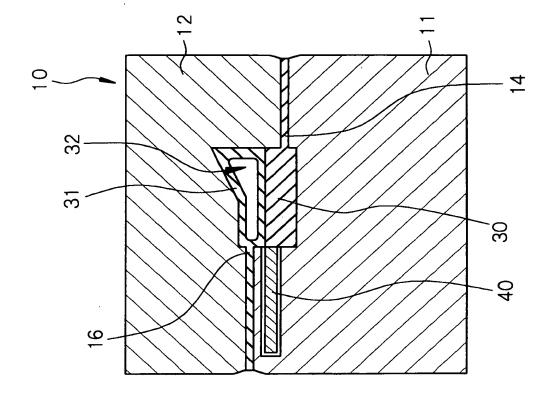
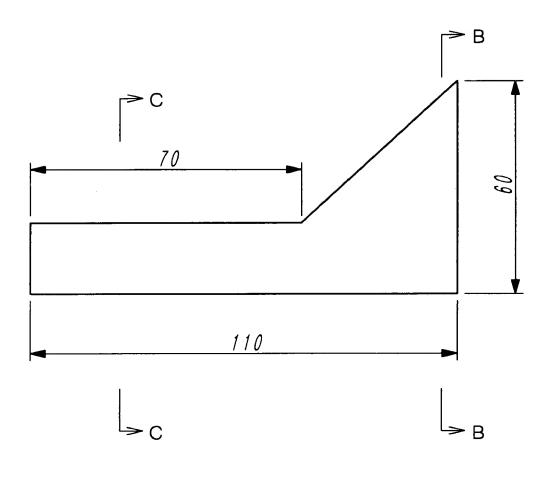


Fig. 27

28/30

Fig. 28



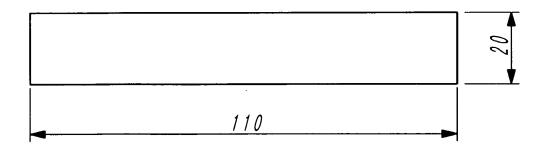
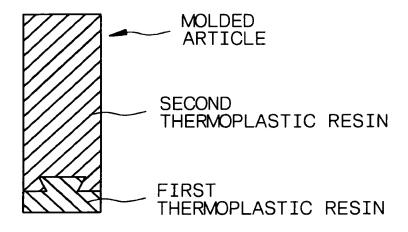


Fig. 29A



Fig. 29B



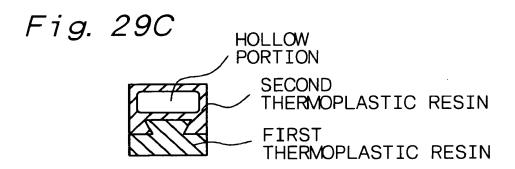


Fig. 29D



